art - Bug #18384

Seg fault copying zero-event artroot file.

11/27/2017 05:14 PM - Herbert Greenlee

Status: Closed Start date: 11/27/2017 **Priority:** Normal Due date: Kyle Knoepfel % Done: 100% Assignee: Category: Infrastructure **Estimated time:** 0.00 hour Target version: 2.05.01 Spent time: 4.00 hours Occurs In: 2.05.00 **Experiment:** MicroBooNE Scope: Internal SSI Package: art

Description

I get a seg fault from inside art when copying an artroot file with zero events.

\$ lar -c copy.fcl -s /uboone/data/users/uboonepro/crash_zero.root

27-Nov-2017 17:06:36 CST Opened input file "/uboone/data/users/uboonepro/crash zero.root"

%MSG-i FastCloning: RootOutput:out1@Construction 27-Nov-2017 17:06:36 CST ModuleConstruction

Initial fast cloning configuration (from default): true

%MSG

27-Nov-2017 17:06:36 CST Opened output file with pattern "merged.root"

%MSG-w FastCloning: PostBeginSubRun 27-Nov-2017 17:06:36 CST run: 6551 subRun: 212

Fast cloning deactivated for this input file due to information in FileBlock.

%MSG

Segmentation fault

The zero-event file was created with art v2.05.00. Crash happens with art v2 05.00 as well as art v2 08 04.

Crash happens in RootOutputFile.cc.

#0 0x00007ffff5433e2f in (anonymous namespace)::maybeInvalidateRangeSet (bt=art::InSubRun, principalRS=..., productRS=...) at /scratch/workspace/nu-release-build/v2 06 02/s43-e10/prof/build/art/v2 05 00/src/art/Framework/IO/Root/RootOutputFile.cc:227

The input file is not obviously corrupted, and was successfully written by art from an input file with a nonzero number of events.

History

#1 - 11/28/2017 08:55 AM - Kyle Knoepfel

- Status changed from New to Accepted

#2 - 11/28/2017 02:27 PM - Kyle Knoepfel

- Category set to Infrastructure
- Status changed from Accepted to Assigned
- Assignee set to Kyle Knoepfel

Herb, the problem is understood, and the solution is straightforward. Is it sufficient to issue a bug-fix release for art 2.09? Or is a 2.08 bug-fix release required?

#3 - 11/28/2017 02:55 PM - Herbert Greenlee

I'd prefer a patch for e10 (v2_05_xx) and development head (v2_09 is acceptable).

#4 - 11/28/2017 03:49 PM - Kyle Knoepfel

We prefer not to backport all the way to art v2_05 since that leaves a lot of versions in between without the fix. Is there a reason why art v2_08 would not be sufficient?

#5 - 12/04/2017 03:27 PM - Kyle Knoepfel

- Status changed from Assigned to Resolved
- Target version set to 2.05.01

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- % Done changed from 0 to 100
- Occurs In 2.05.00 added
- Occurs In deleted (2.08.04)
- SSI Package art added

Based on discussions with Herb, we will provide an art 2.05 bug-fix release with the understanding that *art* series 2.06, 2.07, and 2.08 will not automatically include the fix. A bug-fix release from any of those series can be requested if necessary.

Fix implemented with commits $\underline{canvas:fd47f45}$ and $\underline{art:1440031}$.

#6 - 12/05/2017 10:48 AM - Kyle Knoepfel

- Status changed from Resolved to Closed

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